



Department of Energy

Washington, DC 20585

QA: QA

OCT 23 2002

MEMORANDUM FOR: Eric T. Smistad, YMSCO/OPE

FROM:

R. Dennis Brown, Director *James Blaylock*
Office of Quality Assurance

SUBJECT:

U.S. Department of Energy (DOE) Office of Civilian Radioactive
Waste Management (OCRWM) Office of Quality Assurance (OQA)
Supplier Audit OQA-AS-03-01 of Atomic Energy of Canada, Limited
(AECL) Technologies, Inc.

Enclosed is the Supplier Audit Report, OQA-AS-03-01, conducted by a team of auditors representing OCRWM OQA at the AECL facility in Pinawa, Manitoba, Canada, on October 1-3, 2002.

The audit criteria is delineated in the DOE Contract Number DE-AC08-01NV12137, Technical Services Statements of Work for corrosion studies, isotopic dating studies, transport of chemically reactive tracers in non-welded tuff, and analytical services.

The results of the audit revealed that AECL is satisfactorily implementing their Quality Assurance Program and is meeting the quality and technical requirements described in the contract. No conditions adverse to quality were identified during the audit.

As a result of the audit, it is recommended that AECL remain on the OCRWM Qualified Suppliers List and be maintained on an annual audit schedule.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Donald J. Harris at (702) 794-1467.

OQA:JB-0161

Enclosure:

Supplier Audit Report OQA-AS-03-01



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QA: QA

U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
OFFICE OF QUALITY ASSURANCE

SUPPLIER AUDIT REPORT

OQA-AS-03-01

OF

ATOMIC ENERGY OF CANADA, LIMITED
TECHNOLOGIES, INC.

AT

PINAWA, MANITOBA, CANADA

OCTOBER 1-3, 2002

Prepared by: Donald J. Harris

Date: Oct 16, 2002

Donald J. Harris
Audit Team Leader
Navarro Quality Services

Approved by: James Blaylock for

Date: 10/23/02

R. Dennis Brown
Director
Office of Quality Assurance

ENCLOSURE

1.0 EXECUTIVE SUMMARY

Supplier Audit, OQA-AS-03-01, of Atomic Energy of Canada, Limited (AECL) Technologies, Inc. was conducted October 1-3, 2002, in Pinawa, Manitoba, Canada. The audit determined the effective implementation of AECL's *Company Wide Procurement Quality Assurance Manual*, WT-01913-QAM-011, Revision 1; *Analytical Science Branch Quality Assurance Administrative Level Manual*, Version 4; *Quality Manual for Waste Technical Business Unit*, WT-00-01913-QAM-011, Revision 1; and the Office of Civilian Radioactive Waste Management (OCRWM) implementing procedures as they pertain to Contract Number DE-AC08-01NV12137, Technical Services Statements of Work for corrosion studies, isotopic dating studies, transport of chemically reactive tracers in non-welded tuff and analytical services.

The results of the audit revealed that AECL is satisfactorily implementing their Quality Assurance (QA) Program and is meeting the quality and technical requirements described in the Contract. No conditions adverse to quality were identified during the audit. As the result of this audit, it is recommended that AECL remain on the OCRWM Qualified Suppliers List and be maintained on an annual audit schedule as required by the Contract.

2.0 SCOPE

The supplier audit was conducted to evaluate AECL's ability to implement the specific quality and technical requirements, as specified in the Contract, and as required by their QA Program for the intended scope of work. The QA Sections determined to be applicable were: Organization; Quality Assurance Program; Procurement Document Control; Implementing Documents; Document Control; Control of Measuring and Test Equipment; Nonconformances; Corrective Action; Quality Assurance Records; Sample Control; and Scientific Investigation.

3.0 AUDIT TEAM MEMBERS

Donald J. Harris, Navarro Quality Services (NQS)/Audit Team Leader
John R. Doyle, NQS/Auditor

4.0 SUMMARY OF AUDIT RESULTS

Implementation of the AECL QA Program and compliance with the technical and quality requirements delineated in the Contract was determined to be effective to meet the intended scope of work for corrosion studies, isotopic dating studies, chemically reactive tracers in non-welded tuff, and analytical services.

The details of the audit, including the supporting objective evidence, are documented on the audit checklists, which are retained in the supplier evaluation files.

5.0 DEFICIENCIES

No deficiencies were identified during the audit.

6.1 Follow-up of Previously Issued Deficiencies Documents

Deficiency Report (DR) YMSCO-02-D-004

Electronically controlled copies of Yucca Mountain Project Procedures, described in the Contract for Busted Butte Radionuclide Transport Studies, had not been available for use as per the requirements of AP-6.1Q, Revision 5, ICN 1; *Controlled Distribution*. Investigation during the audit revealed that copies of OCRWM implementing documents are available to AECL personnel on line. The corrective action was determined to be effective.

DR YMSCO-02-D-006

The *Analytical Science Branch Quality Assurance Administrative Level Manual* requires that equipment utilized be identified on the Analytical Science Inventory of Equipment.

Auto pipettes #'s PF-1000-25, 200-24, and 500-25 were found to be in use, but not captured on the Equipment Inventory List. In addition, the ASB Procedure QM-1, *Check of Balance Performance*, requires that balances be provided with check weights whose true masses have been compared to a set of weights with a certified mass. An examination of balance # B45R revealed that the 1 and 2 Kilogram check weights were not compared to a certified weight set.

The audit team also identified that selected ASB samples (AC32701, AC32741, and AC32744) logged into the Laboratory Information Management System (LIMS) sample tracking system did not contain the work order number, submitter, branch name or station numbers as required by the *LIMS Basic User Manual*. It is to be noted that sample traceability was not compromised since sample/barcode identification for these samples was maintained.

During this audit, the audit team verified pipettes are on the Equipment Inventory List, the new set of certified weights traceable to the U.S. National Institute of Standards and Technology were available and in current calibration and samples logged into LIMS contained the appropriate information. The corrective action was determined to be effective.

6.0 PERSONNEL CONTACTED DURING FACILITY AUDIT

Patrick V. Auer	NQS/Representative
Michael Atlas	AECL/Observer
Ernie Bialas	AECL/Chemical Technologies
Doug Drew	AECL/Engineering Technologies
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